



State of New Hampshire  
DEPARTMENT OF ENVIRONMENTAL SERVICES

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095  
(603) 271-3406 FAX (603) 271-7894



May 30, 2002  
**Letter of Deficiency**  
DAM #170.04

Mr. Bill Herman  
Town Administrator  
Town of New Durham  
4 Main Street  
New Durham, NH 03855

RE: Marches Pond AKA Chalk Pond, New Durham

Dear Mr. Herman:

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that plays a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on November 27, 2001. During this visual inspection and/or file review, the following deficiencies were observed:

**Dam**

1. The right embankment has poor grass cover over its entire surface from the gate house to the right abutment. It also appears that there is a low spot on the crest at the bend in the embankment located approximately half way between the gate house and right abutment;
2. The right embankment upstream face has erosion along its entire length due to wave action and is due for annual vegetative maintenance;

There is sediment built up on the upstream side of the gate house;

4. Both the left and right upstream spillway training walls are deteriorated;
5. There was some beaver debris under the gate house. There is a pile of beaver debris downstream and to the right of the gate house indicating periodic removal of debris does occur;
6. The left embankment crest had fair grass cover, is generally uneven, and has several locations along the upstream face that are eroded. Both the upstream and downstream faces have brush growing on them;
7. There is seepage located approximately 70 feet to the left of the left most building along the toe of the dam. At the time of the inspection no flow was observed at this location;

**Dike**

8. The upstream face is slightly eroded due to wave action; and

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9. There is brush on both the upstream face, downstream face, and within 5 feet of the toe.

DES is requesting that you submit a schedule to complete the following items:

**Dam**

1. Survey the right embankment and repair any low spots. Establish grass cover on the crest of the dam;  
  
Trim the vegetation on the upstream face of the right embankment, as well as the upstream face, downstream face, and within 10 feet of the toe of the left embankment;
3. Re-grade the upstream face of the dam to a minimum of 2.5:1 slope and re-establish rip-rap protection;
4. Remove the sediment from the upstream face of the gate house;
5. Repair the upstream spillway training walls;
6. Re-grade the upstream face and crest of the left embankment and establish rip rap protection on the upstream face and grass cover on the crest;

**Dike**

7. Re-grade the upstream face and establish rip rap protection; and
8. Remove the brush on the upstream face, downstream face, and within 10 feet of the toe


Due to the time that has lapsed as well as additional deficiencies observed as a result of the November 27, 2001 inspection, DES will be officially closing out the 1994 and 1998 LOD's. Enclosed are copies for your reference. This LOD will replace the 1994 and 1998 LODs. It is our hope that the additional deficiencies as well as the outstanding deficiencies will be addressed within the schedule that you provide.

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. If you believe changes to the items of work are necessary, please make the changes directly on the form and provide a brief explanation. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

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If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the top of the previous page.

Sincerely,  
  
Jeffrey M. Blaney  
Dam Safety Engineer

Attachments Guideline for an O&M plan, DB13

cc: Gretchen Rule

Certified # 7099 3400 0002 9773 8051

JMB/was/h:/safety/wendy/lod/170-04lod.doc